

cooling the plasma processing chamber by actively cooling the plurality of thermal control blocks.

(Amended) 24. A method as recited in claim 23, wherein the thermal control blocks ~~are [thus is]~~ able to cool the plasma processing chamber through the same thermal control blocks that ~~are [is]~~ able to heat the plasma processing chamber, thereby providing more uniform temperature profile to the plasma processing chamber.

(Amended) 25. A method as recited in claim 23, wherein each of the thermal control blocks ~~include[s]~~ at least a heater element and a cooling element, and

wherein said cooling is provided by the cooling element through the heating element.

(Amended) 26. A method as recited in claim 25, wherein the thermal control blocks ~~further include[s]~~ a thermal break element coupled between the heater element and the cooling element.

(Amended) 27. A method as recited in claim 23, wherein said method further comprises:

~~[removably]~~ biasing the thermal control blocks against a portion of the plasma processing chamber.

Please **ADD** the following Claims:

- - 32. A method as recited in claim 23, wherein the thermal control blocks further include notches to prevent RF energy from coupling with the thermal control blocks.

33. A method for providing temperature control to a plasma processing chamber of a plasma processing apparatus, said method comprising:

directly or indirectly measuring temperature internal to the plasma processing chamber;

comparing the measured temperature to a target temperature;

providing a thermal control block that is thermally coupled to the plasma processing chamber, said thermal control block having a heating element and a cooling element with a thermal break element coupled between the heater element and the cooling element;

heating the plasma processing chamber by heating the thermal control block that is thermally coupled to the plasma processing chamber; and

cooling the plasma processing chamber by actively cooling the thermal control block.

34. A method as recited in claim 33, wherein the thermal control block cools the plasma processing chamber through the same thermal control block that is able to heat the plasma processing chamber, thereby providing more uniform temperature profile to the plasma processing chamber.

35. A method as recited in claim 33, wherein the method further comprises:  
biasing the thermal control block against a portion of the plasma processing chamber.

36. A method as recited in claim 33, wherein the thermal block includes notches formed therein to prevent RF energy from coupling with the thermal control block.

37. A method for providing temperature control to a plasma processing chamber of a plasma processing apparatus, said method comprising:

directly or indirectly measuring temperature internal to the plasma processing chamber;

comparing the measured temperature to a target temperature;

heating the plasma processing chamber by heating a thermal control block that is thermally coupled to the plasma processing chamber;

cooling the plasma processing chamber by actively cooling the thermal control block;  
and  
preventing RF energy from coupling with the thermal control block.

38. The method as of claim 37, wherein preventing RF energy from coupling with the thermal control block is accomplished by including notches in the thermal control block to prevent RF energy from coupling with the thermal control block.

39. A method as recited in claim 38, wherein the thermal control block cool the plasma processing chamber through the same thermal control block that is able to heat the plasma processing chamber, thereby providing more uniform temperature profile to the plasma processing chamber.

40. A method as recited in claim 37, wherein the thermal control block includes at least a heater element and a cooling element, and  
wherein said cooling is provided by the cooling element through the heating element.

41. A method as recited in claim 40, wherein the thermal control block further includes a thermal break element coupled between the heater element and the cooling element.

42. A method as recited in claim 37, wherein said method further comprises:  
biasing the thermal control block against a portion of the plasma processing chamber.

#### REMARKS

Claims 23-27 have been amended herein and Claims 32-42 have been added. Claims 1-22 and 28-31 have been previously cancelled without prejudice. Therefore, Claims 23-27